

```
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3
4 //@version=4
5 study("Cumulative Volume Delta")
6
7 upper_wick = close>open ? high-close : high-open
8 lower_wick = close>open ? open-low : close-low
9 spread = high-low
10 body_length = spread - (upper_wick + lower_wick)
11
12 percent_upper_wick = upper_wick/spread
13 percent_lower_wick = lower_wick/spread
14 percent_body_length = body_length/spread
15
16
17 buying_volume = close>open ? (percent_body_length + (percent_upper_wick + percent_lower_wick)/2)*volume
18 selling_volume = close<open ? (percent_body_length + (percent_upper_wick + percent_lower_wick)/2)*volume
19
20 cumulation_length = input(14)
21 cumulative_buying_volume = ema(buying_volume,cumulation_length)
22 cumulative_selling_volume = ema(selling_volume,cumulation_length)
23
24 fill_color = cumulative_buying_volume > cumulative_selling_volume ? color.green : cumulative_buying_vo
25
26 pb = plot(cumulative_buying_volume, color=color.green , transp=70)
27 ps = plot(cumulative_selling_volume, color=color.red , transp=70)
28
29 fill(pb, ps, color = fill_color)
30
31 volume_strength_wave = cumulative_buying_volume > cumulative_selling_volume ? cumulative_buying_volume
32 ema_volume_strength_wave = ema(volume_strength_wave , cumulation_length)
33 plot(ema_volume_strength_wave, color=color.gray, transp=80)
34
35 cumulative_volume_delta = cumulative_buying_volume - cumulative_selling_volume
36 plot(cumulative_volume_delta, color= cumulative_volume_delta>0 ? color.green : color.red, style=plot.s
37
38
39
40
41
42
43
```